

Dr. Manjunath K.

Associate Professor (Mechanical Engineering)

Formerly Assistant Professor, Dept. of Mechanical Engg., Delhi Technological University (DCE), Delhi

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Educational Qualifications: Ph.D. (Thermal Engineering) IIT Delhi

M. Tech. (Energy Studies) IIT Delhi

B.E. (Mechanical Engineering) Mysore University

Life Member of Indian Society for Technical Education (ISTE)

Teaching Experience: 16 Years

Ph.D. Guidance: 6 nos.

M.Tech Guidance: 10 nos.

LIST OF PUBLICATIONS

International Journals

- Kaushik S.C., Manjunath K. 2011. Second law analysis of condenser by using new heat transfer and pressure drop model based on flow regimes. *International Journal of Exergy*, 9: 255–279. (SCI Journal – ISSN: 1742-8297)
- Kaushik S.C., Manjunath K. 2014. Entropy generation and thermoeconomic analysis of wire-and-tube condenser. *International Journal of Ambient Energy*, 35: 80–93.
- Manjunath K., Kaushik S. C. 2014. The Second law analysis of unbalanced constructal heat exchanger. *International Journal of Green energy*, 11: 173–192. (SCI Journal – ISSN: 1543-5075)
- Manjunath K., Kaushik S. C. 2014. Entropy generation and thermo-economic analysis of constructal heat exchanger. *Heat transfer – Asian research*, 43: 39-60.
- Manjunath K., Kaushik S. C. 2014. Second law efficiency analysis of heat exchangers. *Heat transfer – Asian research*, 44: 89-108.
- Manjunath K., Kaushik S. C. 2014. Second Law Thermodynamic study of heat exchangers: A Review. *Renewable & Sustainable Energy Reviews*, 40: 348–374. (SCI Journal – ISSN: 1364-0321)
- Varghese, J., Samsher and Manjunath, K., 2017. A parametric study of a concentrating integral storage solar water heater for domestic uses. *Applied Thermal Engineering (Elsevier)*, 111, pp.734-744.
- Varghese, J., Samsher and Manjunath. K., 2017. Techno-economic analysis of an integrated collector storage (ICS) solar water heater with CPC reflector for households. *International Journal of Ambient Energy (Taylor and Francis)*, DOI: 10.1080/01430750.2017.1354327, pp.1-20.
- Sharma, O.P., Kaushik, S.C. and Manjunath, K., 2017. Thermodynamic analysis and optimization of a supercritical CO₂ regenerative recompression Brayton cycle coupled

with a marine gas turbine for shipboard waste heat recovery. *Thermal Science and Engineering Progress (Elsevier)*, 3, pp.62-74.

- Jaji Varghese , Samsher , Manjunath K. 2015. Current trends in domestic Solar water heating- CPC an amicable alternative, a proposed distinct design. *International Journal of Science, Technology & Management*, 4: 956-961.
- Varghese, J., Samsher and Manjunath, K., 2017. Experimental investigation and comparison between an integrated compound parabolic domestic solar water heater with and without an air gap introduced at the arms of the CPC. *International Journal of Advance Research and Innovation*, 5(1), pp 90-93.

International Conferences

- Manjunath K., Kaushik S. C. 2006. Second law analysis of heat exchangers. Second International Green Energy Conference, University of Ontario Institute of Technology, Oshawa, Ontario, Canada, June 25-29: paper no. IGEC2-022.
- Kaushik S.C., Manjunath K. 2009. Second law analysis heat exchangers by using constructal theory. 1st International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium, NISYROS, Greece, June 4-6: paper no. II 5.
- Manjunath K., S.N. Srivastava. 2007. Energy conservation opportunities in thermal power plant. Global conference on production and industrial engineering, NIT, Jalandhar, March 22-24: paper no.725.
- Manjunath K. 2013. Second law analysis of constructal heat exchangers. International Conference on Smart Technologies for Mechanical Engineering, DTU, Delhi, October 25-26, Paper no. 203.
- Sandeep Sudheer K., Manjunath K. *Procedure for Optimum sizing of Photovoltaic pumping system according to the Irrigation requirement of Sugarcane crop in Northern India*. International conference on “Advances in power generation from renewable energy sources” (APGRES 2015), June 15-16 2015, at Rajasthan Technical University, Kota, India. Page 283-291.
- Manjunath K., 2015. *Entropy generation minimization analysis of constructal heat exchanger*. Constructal Law & Second Law Conference, Parma, Italy, 18th - 19th May.
- Manjunath, K., 2016. Thermoeconomic Comparative Analysis of Constructal and Conventional Heat Exchangers. International Conference on Recent Advances in Mechanical Engineering, DTU Delhi, October 14th to 15th. ISBN 978-194523970-0. pp 347-360.

National Conferences

- Manjunath K. 2013. Entropy generation and exergy analysis of heat exchangers. ISTE Convention on “Technological Universities and Institutions in New Knowledge Age: Future Perspectives and Action Plan” DTU, Delhi, September 5-6, Paper no. ISTE 153.

National magazine

- Kaushik S.C., Manjunath K., Kaul S. 2013. Energy Efficiency Considerations in Heat Exchangers Designs. *Cooling India*, 8: 26-30.
- Manjunath K., Kaushik S.C. 2013. Thermoeconomic Analysis of Heat Exchangers for Energy Conservation. *Cooling India*, 9 (1): 72-75.

Invited Expert Lecture

CSIR sponsored national seminar on modeling and simulation of emerging trends, organized by Krishna Engineering College, Ghaziabad, held on 30th August 2013.

Invited Expert Lecture on Refrigeration and Air conditioning, organized at Krishna Engineering College, Ghaziabad, held on 11th October 2014.

Expert lecture titled "Heat Exchanger Design for Condensers & Evaporators in HVAC" delivered in QIP course on "Energy Conservation and Management in Buildings and HVAC systems" during June 6–13 June 2016, at Centre for Energy Studies, IIT Delhi.